

IN THE SPECIFICATION

Page 1, between the title of the invention and the first line of the text, insert the following:

CROSS-REFERENCE TO RELATED APPLICATION

This Application is a Section 371 National Stage Application of International Application No. PCT/FR2004/001499, filed June 16, 2004 and published as WO 2004/114625 A2 on December 29, 2004, not in English.

FIELD OF THE DISCLOSURE

Please replace the paragraph appearing on Page 1, lines 1-5 with the following amended paragraph:

The domain of the ~~invention~~disclosure is remote control of equipment, and particularly equipment with limited data processing resources. Thus, the ~~invention~~disclosure is applicable for example to remote data recording systems, for example on water, gas or electricity meters, and more generally to telemetry, order monitoring and more generally Machine to Machine (M to M) systems.

Page 1, after line 5, insert the following heading:

BACKGROUND OF THE DISCLOSURE

Page 2, before line 1, insert the following heading:

SUMMARY OF THE DISCLOSURE

Please replace the paragraphs beginning on page 2, lines 1 and ending on page 3, line 9 with the following amended paragraphs:

One particular ~~purpose~~aspect of an embodiment of the invention is to overcome this disadvantage with prior art.

It should be noted that the fact that this problem has been identified is itself part of an embodiment of the invention.

Those skilled in the art are convinced that it is absolutely necessary to equip terminal equipment with sufficient processing means, and will never consider reducing or eliminating these processing means.

However, one ~~purpose~~aspect of an embodiment of the invention is to simplify the ~~necessary processing~~processing in the equipment, and to avoid the need for this equipment to have complex and expensive means such as a microprocessor.

Another ~~purpose~~aspect of an embodiment the invention is to propose a simple and generic technique to easily and efficiently set up a dialog with a server using the MQIsdp protocol.

Yet another ~~purpose~~aspect of an embodiment of the invention is to provide such a technique for setting up a connection between servers and equipment by radiotelephone link in a simple, standardised and inexpensive manner.

Another ~~purpose~~aspect of an embodiment of the invention is to provide such a technique to develop a large number of applications, without it being necessary to develop specific applications each time.

Another ~~purpose~~aspect of an embodiment of the invention is to provide such a technique in which there is no need to know the MQIsdp protocol in the developed applications.

Yet another ~~purpose~~aspect of an embodiment of the invention is to provide such a technique that is technically simple and upgradeable and adaptable to various situations (for example the amount of data to be exchanged) and to any future changes that are made.

These ~~purposes~~aspects and others that will appear more clearly in the following, are achieved using a system for remote control of equipment enabling interconnection between at least one broker and at least one remote equipment using the MQIsdp protocol.

According to an embodiment of the invention, radiocommunication means capable of sending and receiving AT type commands sent by and / or sent to an external application used by the said remote equipment are associated with at least one of the

said remote equipment, the said radiocommunication means being provided with a set of special AT commands for exchanging data with at least one broker using the said MQIsdp protocol, so as to enable an interconnection between the said server(s) and the said remote equipment through the said radiocommunication means, without requiring knowledge of the said MQIsdp protocol in the said remote equipment.

Thus, it is easy and simple to manage data exchanges without the need to develop special applications or to associate important means (particularly microprocessor and memory) with a terminal. Neither the terminal nor the application needs to know the MQIsdp protocol. The radiocommunication means manage these aspects. The application only needs to know the new AT commands ~~according to the invention.~~

Please replace the paragraphs appearing on page 5, lines 9-29 with the following amended paragraphs:

~~The~~An embodiment of invention also relates to the method for remote control of equipment used by a system as described above. It enables interconnection between at least one server and at least one remote equipment according to the MQIsdp protocol by associating at least one of the said remote items with radiocommunication means capable of sending and receiving AT type commands sent by and / or to be sent to an external application used by the said remote equipment, and by using a set of special AT commands in the said radiocommunication means for exchanging data with at least one server using the said MQIsdp protocol. This enables an interconnection between the said server(s) and the said remote equipment through the said radiocommunication means, without requiring additional processing and / or data formatting means in the said remote equipment.

~~The~~An embodiment of invention also relates to radiocommunication devices and modules comprising radiocommunication means used in such an equipment remote control system.

~~Finally,~~ A further embodiment of the invention relates to sets of AT commands used in an equipment remote control system, used to exchange data with at least one server using the said MQIsdp protocol.

Other special features and advantages of one or more embodiments of the invention will become clearer after reading the following description of a preferred embodiment of the invention, given as a simple illustrative and non-limitative example and appended figures, ~~wherein~~.

Page 5, after line 29, insert the following heading:

BRIEF DESCRIPTION OF THE DRAWINGS

Please replace the paragraphs beginning on page 5, line 30 and ending on page 6, line 4 with the amended paragraphs:

- Figure 1 shows an example of a system in which an embodiment of the invention could be used;
- Figure 2 shows an example of how the MQIsdp protocol can be integrated in an Open-AT application; and
- Figures 3A to 3L show different example embodiments of a connection according to embodiments of the invention.

Page 6, after line 4, insert the following heading:

DETAILED DESCRIPTION OF THE ILLUSTRATIVE EMBODIMENTS

Please replace heading on page 6, lined 31 with the following amended heading:

~~2. Principles of the invention~~ 2. Principles of an embodiment of the invention

Please replace the paragraphs appearing on page 7, lines 2-17 with the following amended paragraphs:

Therefore, one or more embodiments of the invention ~~relates~~ relate to a new approach for remote control of equipment, particularly based on the use of a set of special AT type

commands, enabling an external application to manage data exchanges between a remote terminal and a server, through radiocommunication links (for example a Wismo type (registered trademark) module), without the application knowing the MQIsdp protocol used by the server. This aspect is managed by radiocommunication means, and for example acknowledgements described in the MQIsdp protocol.

Figure 1 is a simplified illustration of the principle of an embodiment of the invention. The objective is to have any type of remote machine, for example measurement instruments 11, communicate with one or several applications hosted on servers 12, capable of receiving data 13 using the MQIsdp protocol, and to transform, process or transmit these data.

According to ~~the invention~~ this embodiment, the remote terminals (or machines) 11 are associated with radiocommunication means 14, for example in the form of a Wismo module (registered trademark) particularly embedding development tools distributed by the applicant under the "Muse platform" trademark).

Please replace the paragraph appearing on page 10, lines 12-14 with the following amended paragraph:

According to an embodiment of the invention, a library 26 of special commands (Wavecom SCADA Protocol Library) is provided to communicate using the MQIsdp protocol that is above the TCP/IP library 24.

Please insert the following paragraph on page 48, after line 18:

Although the present invention has been described with reference to preferred embodiments, workers skilled in the art will recognize that changes may be made in form and detail without departing from the spirit and scope of the invention.